



## PRO HOIST MODULE—EV77A

Vortek<sup>fl</sup> PRO-EV77A Hoist Module is suitable for Sets, Orchestra Shells, medium to large sized electrics, and signs in medium to large sized theaters. It provides higher lifting capacities at medium lifting speeds. It is a perfect choice when requirements call for a batten of 500 kg or less lifting capacity.

### PRODUCT FEATURES

<b>SPEED:</b>	0 1.2 m/sec
<b>LIFTING CAPACITY:</b>	0 500 kg (*1)
<b>TRAVEL DISTANCE:</b>	Standard Travel 18.9 m (Additional travel distance available upon request)
<b>DIMENSIONS:</b>	Length: 3.88 m Height: 49 cm (Does not include backbone stiffener height) Width: 22.8 cm
<b>WIRE ROPE LIFT LINES:</b>	<sup>3</sup> / <sub>16</sub> 7x19 Galvanized Aircraft Cable run to a single Nylatron drum
<b>WEIGHT:</b>	295 kg (*2)

(\*1) Lifting Capacity does not include weight of batten or any other material hanging on Vortek<sup>fl</sup>.

(\*2) Weight may vary depending on model and components applicable to your project.

# PRO HOIST MODULE—EV77A (CONTINUED)

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## SAFETY



Every Vortek<sup>fi</sup> hoist comes equipped with dual braking systems. A continuously engaged, strictly mechanical load brake and an electro-magnetic motor brake rated at a minimum of 150% of the motor's rated torque.



I-Batten<sup>®</sup> technology for overload and underload detection. Detect weight imbalances as low as 1.5 kg of variance between pre-set, pro led loads and actual loads. The control system reads individual or grouped batten weight to avoid picking up unexpected weight (snagged curtains) or driving scenery into the floor potentially crushing an object below.



Three levels of limit switch protection in both the up and down direction. In addition to the multiple user configurable soft limits, Vortek<sup>fi</sup> delivers Redundant (2) upper hard struck limit switches - Redundant (2) lower hard struck limit switches.



Emergency Stop Button: Independently wired, Standard with every control system.

1. Glass lled Nylatron<sup>®</sup> drum features helical grooves which fully envelops lift lines to insure positive tracking and avoid pile winding wire rope. Glass lled Nylatron<sup>®</sup> is less abrasive to wire rope than steel drums as noted by SAE. Nylatron<sup>®</sup> is quieter than steel.
2. Every Vortek<sup>fi</sup> hoist system is built to lift line standards of 10:1 design factor.
3. Executable Screens are 100% fully redundant immediately and supported with redundant capability through interchangeable hardware. Vortek<sup>fi</sup> control system general architecture is composed of Off-the-Shelf Parts which are available worldwide.
4. Wireless remote with e-stop available.
5. VAC Automation features; Variable speeds, Cueing and Grouping which includes underload and overload, with relative positioning errors between hoist modules of no more than .05 mm. VAC can control up to 250 Vortek<sup>fi</sup> hoist modules.

## NOISE RATING

1. Acoustical barrier significantly lowers audible noise from escaping the enclosure. Six decibels over ambient noise level with no outstanding frequencies. (Test data can be found at [www.vortekrigging.com/projectcentral](http://www.vortekrigging.com/projectcentral)).

## FIRE RESISTANCE

1. Acoustical Cover: Self-extinguishing fire retardant thermoplastic that holds a UL94-V0-5VA flammability rating. This is the most flame retardant UL94 rating for any material available today.
2. Loft Block: Self-extinguishing, molded, glass-reinforced, heat stabilized nylon 66 resins. This material has been tested to ASTM D 648 and ASTM D 3418 standards and holds a UL94-HB flammability rating.

## ELECTRICAL

1. Power wiring is installed in a common buss system with flush mount receptacles for ease of connection to each Vortek<sup>fi</sup> hoist.
2. The power pigtail cords are equipped with twist locking connectors to connect 3-phase 200-240 or 380-480 VAC +/- 10%, 50/60 Hz power to each Vortek hoist module as specified in the system riser drawing. (Wireways provided by Vortek<sup>fi</sup>) Hoist motor horsepower: 7.5 kw standard for PRO-EV77A.

